## 2. Amendments to the Claims.

| 1  | 1. | (currently amended) Lightweight, structurally integral, and strong composite rack        |  |  |  |
|----|----|--|--|--|--|
| 2  |    | shelving, comprising:  |  |  |  |
| 3  |    | a) a shelf;  |  |  |  |
| 4  |    | b) a border; and   |  |  |  |
| 5  |    | <u>c)</u> <u>inserts;</u>  |  |  |  |
| 6  |    | wherein said shelf comprises a honeycomb core;   |  |  |  |
| 7  |    | wherein said shelf comprises an upper skin;  |  |  |  |
| 8  |    | wherein said shelf comprises a lower skin;   |  |  |  |
| 9  |    | wherein said honeycomb core of said shelf is sandwiched between said upper skin of       |  |  |  |
| 10 |    | said shelf and said lower skin of said shelf so as to form a composite structure;        |  |  |  |
| 11 |    | wherein said composite structure of said shelf is lightweight;                           |  |  |  |
| 12 |    | wherein said composite structure of said shelf is strong;                                |  |  |  |
| 13 |    | wherein said shelf has a plurality of through bores;                                     |  |  |  |
| 14 |    | wherein said plurality of through bores pass vertically through said shelf; and          |  |  |  |
| 15 |    | wherein said plurality of through bores through said shelf allow flames under said shelf |  |  |  |
| 16 |    | to pass upwardly therethrough instead of sidewardly therealong whereby an                |  |  |  |
| 17 |    | extinguishant thereabove can pass downwardly therethrough for extinguishing flames       |  |  |  |
| 18 |    | thereunder:  |  |  |  |

| 19 | wherein said shelf has a periphery;  |
|----|--|
| 20 | wherein said border closes off said periphery of said shelf;                           |
| 21 | wherein said honeycomb core of said shelf comprises walls;                             |
| 22 | wherein said walls of said honeycomb core of said shelf define cells;                  |
| 23 | wherein said border is a tape;   |
| 24 | wherein said tape of said border is affixed to any wall of said honeycomb core of      |
| 25 | said shelf that it comes in contact with, especially any defining an open cell of said |
| 26 | honeycomb core of said shelf located at said periphery of said shelf so as to          |
| 27 | maintain structural integrity of said shelf by closing off any open cell of said       |
| 28 | honeycomb core of said shelf located at said periphery of said shelf and form a        |
| 29 | structurally integral unit with said shelf, and which folds over to be affixed to      |
| 30 | said upper skin of said shelf and said lower skin of said shelf;                       |
| 31 | wherein said inserts line said plurality of through bores through said shelf,          |
| 32 | respectively;  |
| 33 | wherein said inserts are tapes;  |
| 34 | wherein said tapes of said inserts are affixed to any wall of said honeycomb core      |
| 35 | of said shelf that they come in contact with, especially any defining an open cell     |
| 36 | of said honeycomb core of said shelf caused by a through bore through said shelf       |
| 37 | so as to maintain structural integrity of said shelf by closing off any open cell of   |
| 38 | said honeycomb core of said shelf caused by a through bore through said shelf          |

| 39 |      | and form a structurally integral unit with said shelf, and which fold over to be          |  |  |
|----|------|---|--|--|
| 40 |      | affixed to said upper skin of said shelf and said lower skin of said shelf.               |  |  |
|    |      |   |  |  |
| 1  | 2.   | (original) The shelving as defined in claim 1, wherein said shelf has a surface area; and |  |  |
| 2  |      | wherein said plurality of through bores through said shelf occupy approximately 50%       |  |  |
| 3  |      | of said surface area of said shelf.   |  |  |
|    |      |   |  |  |
|    | 3-7. | (canceled)  |  |  |
|    |      |   |  |  |
| 1  | 8.   | (currently amended) An improved rack system of the type having columns, beams             |  |  |
| 2  |      | interconnected to the columns, and shelving supported by the beams, said                  |  |  |
| 3  |      | improvement comprising:   |  |  |
| 4  |      | a) the shelving being lightweight;  |  |  |
| 5  |      | b) the shelving being structurally integral;  |  |  |
| 6  |      | c) the shelving being strong;   |  |  |
| 7  |      | d) the shelving comprising a shelf;   |  |  |
| 8  |      | e) said shelf comprising a honeycomb core;  |  |  |
| 9  |      | f) said shelf comprising an upper skin;   |  |  |
| 10 |      | g) said shelf comprising a lower skin;  |  |  |

| 11 | h)        | said honeycomb core of said shelf being sandwiched between said upper skin   |
|----|-----------|--|
| 12 |           | of said shelf and said lower skin of said shelf so as to form a composite    |
| 13 |           | structure;   |
| 14 | i)        | said composite structure of said shelf being lightweight;                    |
| 15 | j)        | said composite structure of said shelf being strong;                         |
| 16 | k)        | said shelf having a plurality of through bores;                              |
| 17 | l)        | said plurality of through bores passing vertically through said shelf; and   |
| 18 | m)        | said plurality of through bores through said shelf being for allowing flames |
| 19 |           | under said shelf to pass upwardly therethrough instead of sidewardly         |
| 20 |           | therealong and an extinguishant thereabove to pass downwardly therethrough   |
| 21 |           | and extinguish the flames thereunder;  |
| 22 | <u>n)</u> | said shelf having a periphery;   |
| 23 | <u>o)</u> | the shelving comprising a border;  |
| 24 | <u>(q</u> | said border closing off said periphery of said shelf;                        |
| 25 | <u>a)</u> | said honeycomb core of said shelf comprising walls;                          |
| 26 | <u>r)</u> | said walls of said honeycomb core of said shelf defining cells;              |
| 27 | <u>s)</u> | said border being a tape;  |
| 28 | <u>t)</u> | said tape of said border being affixed to any wall of said honeycomb core    |
| 29 |           | of said shelf that it comes in contact with, especially any defining an open |
| 30 |           | cell of said honeycomb core of said shelf located at the periphery of said   |

| 31 |    |           | shelf so as to maintain structural integrity of said shelf by closing off any |
|----|----|-----------|---|
| 32 |    |           | open cell of said honeycomb core of said shelf located at the periphery of    |
| 33 |    |           | said shelf and form a structurally integral unit with said shelf, and which   |
| 34 |    |           | is folded over to be affixed to said upper skin of said shelf and said lower  |
| 35 |    |           | skin of said shelf;   |
| 36 |    | <u>u)</u> | the shelving comprising inserts;  |
| 37 |    | <u>v)</u> | said inserts lining said plurality of through bores through said shelf,       |
| 38 |    |           | respectively;   |
| 39 |    | <u>w)</u> | said inserts being tapes; and   |
| 40 |    | <u>x)</u> | said tapes of said inserts being affixed to any wall of said honeycomb core   |
| 41 |    |           | of said shelf that they come in contact with, especially any defining an      |
| 42 |    |           | open cell of said honeycomb core of said shelf caused by a through bore       |
| 43 |    |           | through said shelf so as to maintain structural integrity of said shelf by    |
| 44 |    |           | closing off any open cell of said honeycomb core of said shelf caused by a    |
| 45 |    |           | through bore through said shelf and form a structurally integral unit with    |
| 46 |    |           | said shelf, and which are folded over to be affixed to said upper skin of     |
| 47 |    |           | said shelf and said lower skin of said shelf.                                 |
|    |    |           |   |
| 1  | 9. | (origi    | nal) The improved rack system as defined in claim 8, wherein said shelf has a |
| 2  |    | surfac    | e area; and   |

